



SEQUENCE LISTING

<110> Xiao, Yingxiao
Feng, Xin-Hua

<120> Gene expression suppression agents

<130> 132848-01US

<140> US 10/552,909

<141> 2005-10-13

<160> 9

<210> 1

<211> 27

<212> DNA

<213> Human

<220>

<221> primer_bind

<223> Primer to amplify upstream promoter containing Box D in the Human 5S RNA gene

<300>

<310> PCT WO 2004/106488 A2

<311> 2003-05-12

<312> 2004-12-09

<400> 1

aacggatcca aaacgctgcc tccgcga 27

<210> 2

<211> 25

<212> DNA

<213> Human

<220>

<221> primer_bind

<223> Downstream reverse primer used to amplify the upstream promoter containing Box D in the Human 5S RNA gene. The sequence contains a PstI site at 7 bp upstream of the transcription site.

<400> 2

tagacgctgc aggaggcgcc tggct 25

<210> 3
<211> 269
<212> DNA
<213> Human

<220>
<221> promoter
<223> Calculated BamHI-PstI fragment of the upstream promoter containing Box D in the Human 5S gene. Cloned into pBluescript-KS to give plasmid pPPVI.

<400> 3
ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggtcccc gatccgagcc 180
ccgcggcccc gggctggcgg tgtcggtgc aatccggcgg gcacggccgg ccgggctggg 240
ctcttggggc agccaggcgc ctccttcag 269

<210> 4
<211> 84
<212> DNA
<213> Human

<220>
<221> terminator
<223> Comprises Box A, C and terminator of the human 5S RNA gene. Serves as a top strand to anneal with SEQ ID NO: 5 to create a double-stranded DNA molecule.

<400> 4
agaagacgaa gctaaggcagg gtcgggcctg gtttagtactt ggatgggaga ccgcctggga 60
ataccgggtg ctgttaggctt tttg 84

<210> 5
<211> 88
<212> DNA

<213> Human

<220>

<221> terminator

<223> Comprises Box A, C and terminator of the human 5S RNA gene.
Serves as a top strand to anneal with SEQ ID NO: 4 to
create a double-stranded DNA molecule.

<400> 5
tcgacaaaaa gcctacagca cccggatttc ccaggcggtc tcccatccaa gtactaacca 60
ggcccgaccc tgcttagctt cgtttct 88

<210> 6
<211> 367
<212> DNA
<213> Human

<220>

<221> promoter

<223> A BamHI-SalI fragment of plasmid pPPV2 containing the
upstream promoter containing Box D, A, C and the terminator
of the Human 5S gene.

<400> 6
ggatccaaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggtcccc gatccgagcc 180
ccgcggcccc gggctggcgg tgcggctgc aatccggcgg gcacggccgg ccgggctggg 240
ctcttggggc agccaggcgc ctccttcagg aattcgatag aagacgaagc taagcagggt 300
cgggcctggc tagtacttgg atgggagacc gcctggaaat accgggtgctg taggcttt 360
tgtcgac 367

<210> 7
<211> 51
<212> DNA
<213> Human

<220>

<221> misc_RNA

<222> Positioned with PstI at the 5' end and BbsI at the 3' end.
<223> Contains designed siRNA sequence. Serves as a top strand to anneal with SEQ ID NO: 8 to create a double-stranded DNA molecule. The "n" bases represent any of the a, g, c, or t bases.

<400> 7
gcnnnnnnnn nnnnnnnnnn ntttcggnnn nnnnnnnnnn nnnnnnnttt t 51

<210> 8
<211> 59
<212> DNA
<213> Human

<220>
<221> misc_RNA
<222> Positioned with PstI at the 5' end and BbsI at the 3' end.
<223> Contains designed siRNA sequence. Serves as a top strand to anneal with SEQ ID NO: 7 to create a double-stranded DNA molecule. The "n" bases represent any of the a, g, c, or t bases.

<400> 8
agctaaaaan nnnnnnnnnn nnnnnnnncc gaaannnnnn nnnnnnnnnn nnngctgca 59

<210> 9
<211> 399
<212> DNA
<213> Human

<220>
<221> misc_structure
<222> A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA design.
<223> The second stretch of the 19 "n" bases are complementary and reverse to the first stretch. The "n" bases represent any of the a, g, c, or t bases.

<400> 9
ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
ccgcggcccc gggctggcgg tgcggctgc aatccggcgg gcacggccgg ccgggctggg 240

ctcttgggc agccaggcgc ctcccttcagc nnnnnnnnnn nnnnnnnnnnt ttcggnnnn 300
nnnnnnnnnnn nnnnntttta gctaaggcagg gtcgggcctg gtttagtactt ggatggaga 360
ccgcctggga ataccgggtg ctgtaggctt tttgtcgac 399